

ARTICLE 19 AMENDMENT

CLAIMS

1. (Amended) A transmission power control apparatus
5 comprising:

a first variable amplifying circuit that has a first gain resolution and amplifies an input signal;

a second variable amplifying circuit that has a second gain resolution higher than the first gain resolution and amplifies an input signal;
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a transmission power specifier that specifies transmission power to be outputted to a communicating party based on a signal transmitted from the communicating party;

15 a correction value calculator that calculates a correction value to assure the accuracy of the transmission power;

a transmission power calculator that calculates transmission power by correcting the specified transmission power by the correction value; and
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a set value calculator that calculates gain values to be set on the first variable amplifying circuit and the second variable amplifying circuit based on the corrected transmission power calculated by the transmission power calculator,
25

wherein, when a gain value beyond a dynamic range of the second variable amplifying circuit is calculated,

the transmission power calculator receives a feedback signal generated by the set value calculator and makes the set value calculator calculate the gain value again.

- 5 2. (Amended) A transmission power control apparatus comprising:

 a first variable amplifying circuit that amplifies an input signal;

 an amplitude controller that performs amplitude
10 control of an I-channel signal and a Q-channel signal;

 a transmission power specifier that specifies transmission power to be outputted to a communicating party based on a signal transmitted from the communicating party;

15 a correction value calculator that calculates a correction value to assure the accuracy of the transmission power;

 a transmission power calculator that calculates transmission power by correcting the specified
20 transmission power by the correction value;

 a set value calculator that calculates a gain value to be set on the first variable amplifying circuit based on the transmission power calculated by the transmission power calculator; and

25 an amplitude value calculator that calculates an amplitude value to be set on the amplitude controller based on corrected transmission power calculated in the

transmission power calculator,

wherein, when an amplitude value beyond a predetermined amplitude range is calculated, the transmission power calculator receives a feedback signal
5 generated by the amplitude value calculator and makes the set value calculator and the amplitude value calculator calculate the gain value again.

3. The transmission power control apparatus according
10 to claim 1, wherein the correction value calculator comprises a storage that stores environment characteristic correction values to compensate for deterioration in the accuracy of transmission power caused by frequency characteristics and temperature
15 characteristics, and when a change occurs in environment, calculates a correction value after the change in environment, using an environment characteristic correction value stored in the storage.

20 4. The transmission power control apparatus according to claim 1, wherein the correction value calculator comprises an error calculator that calculates an error between the transmission power specified in the transmission power specifier and actual transmission
25 power actually outputted to the communicating party, and based on the transmission power specified by the transmission power specifier, determines whether or not

correction of the error is reflected in calculation of the correction value.

5. The transmission power control apparatus according to claim 3, wherein the correction value calculator comprises a timing information generator that generates timing information for calculating the correction value, and based on the timing information, limits a correction value amount that is the number of times the correction value is calculated and manages a period for calculating the correction value.

6. (Deleted)

15 7. (Deleted)

8. The transmission power control apparatus according to claim 1, further comprising:

a first variable amplifying circuit controller that controls the gain value of the first variable amplifying circuit;

a second variable amplifying circuit controller that controls the gain value of the second variable amplifying circuit; and

25 a gain set value controller that obtains a gain code based on the gain value calculated by the set value calculator and independently controls the first variable

amplifying circuit controller and the second variable amplifying circuit controller with the obtained gain code using a predetermined control format.

- 5 9. The transmission power control apparatus according to claim 1, further comprising:

a variable amplifying circuit controller that controls respective gain values of the first variable amplifying circuit and the second variable amplifying circuit; and
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a gain set value controller that obtains a gain code based on the gain values calculated by the set value calculator, and controls the variable amplifying circuit controller with the obtained gain code using a
15 predetermined format.

10. The transmission power control apparatus according to claim 2, further comprising:

a first variable amplifying circuit controller that
20 controls the gain value of the first variable amplifying circuit; and

a gain set value controller that obtains a gain code based on the gain value calculated by the set value calculator and independently controls the first variable
25 amplifying circuit controller and the amplitude controller with the obtained gain code using a predetermined control format.